

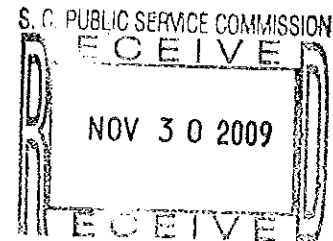
Mr. Charles Terreni
Chief Clerk and Administrator
Public Service Commission of South Carolina,
101 Executive Center Dr., Suite 100
Columbia, SC 29210

220511 2009-226-E

220512 2008-447-EG

Dockets # 2009-226-E, 2008-447-E

Subject: Water for nuclear reactor cooling systems in South Carolina.



THE URGENT CONSIDERATION REQUEST.

Duke Energy Carolinas plans to install another two reactors to produce electricity in South Carolina.

In the future, the SC economy depends on more electric energy production as well as the adequate water supply. Four nuclear energy generating reactors (two planned by Duke's and two new SCE&G units will deliver over 4 GWe power for the perspective base electric loads. For SC problem seems to be created by enormous needs for the cooling water. One AP 1000 unit will take **26.5 millions gallons per day per reactor**, evaporating 20 millions gallons per day per reactor. SC has access to almost unlimited water reservoir in Atlantic Ocean. Seawater is used for many of existing reactor over the world (Japan, France, etc.) and will be used for new installations, e.g. in Florida, California, China, etc. Seawater is even better cooling medium I know from my engineering expertise. It indicates efficiency of the seawater usage wherever it is possible.

I believe Duke has no chance to locate their reactors close to Atlantic but South Carolina Electric & Gas Company has. From my technical / energy distribution and safety analysis of future base load needs, locations between Charleston and Savannah are superior to the central SC location in Jenkinsville.

It is necessary to reconsider location of SCE&G two AP 1000 reactors location before we will have real problem with water in SC. New two AP 1000 will evaporate about 40 millions gallons per day, the amount approximately equal to the volume of water today delivered from Broad river to City of Columbia –the metropolitan part located in Richland County.

I am ready to deliver any necessary information and technical expertise to **save water and nuclear reactor effective – uninterrupted operation** in behalf of SC people and SC economy as well as a cooperation the states of Southeast USA region in the drought situation.

This topic serious consideration is **urgent** because SC Public Service Commission conducts hearings for Duke's application in its docket # 2009-226-E

Sincerely,

Joseph "Joe" Wojcikl, MSEE.

Joe4ocean@aim.com

Columbia, SC 11/17/2009